

IN THE CLAIMS:

On page 14, at the top of the page, cancel "~~GR 97 P 2123 P~~".

in line 1, cancel "Patent Claims" substitute --**WE CLAIM AS OUR**

INVENTION:-- therefor.

5 Please cancel claims 1-14 and substitute the following claims 15-28
therefor:

15. A method for wire-free transmission of data, said method
comprising the steps of:
transmitting data in time slots using a frequency-division multiplex
method, a time-division multiplex method, and with time division
duplexing, a transmission frame having 16 time slots;
modulating said data onto a carrier frequency using a GMSK modulation
method; and
changing said carrier frequency after a predetermined time period.

15 16. The method according to claim 15, wherein between 80 and 100
carrier frequencies are used.

17. The method according to claim 15, wherein said data is transmitted
in a frequency band between 2.4 GHz and 2.4835 Ghz.

20 18. The method according to claim 15, wherein said predetermined
time period after which said carrier frequency is changed corresponds to one of a
time slot, a transmission frame, and an integer multiple of one of a time slot and a
transmission frame.

25 19. The method according to claim 15, wherein said data is transmitted
in an active time slot which is followed in each case by an inactive time slot in
which no data is transmitted.

20. The method according to claim 19, wherein a time duration of said

inactive time slots is half a time duration of said active time slots.

21. The method according to claim 19, wherein a carrier frequency for a next active time slot is changed during a presently transmitting inactive time slot.

5 22. A transmission system for wire-free transmission of data, said transmission system comprising:

10 a fixed station having a first transmitter for transmitting data in time slots using a frequency-division multiplex method, a time-division multiplex method, and with time division duplexing, and for modulating said data onto a carrier frequency, and for demodulating said data using a GMSK modulation method, and for changing said carrier frequency after a predetermined time period, and sixteen transmitted time slots being a transmission frame; and
15 at least one mobile station having a second transmitter for transmitting data in time slots using a frequency-division multiplex method, a time-division multiplex method, and with time division duplexing, and for modulating said data onto a carrier frequency and for demodulating said data using a GMSK modulation method, and for changing said carrier frequency after a predetermined time period,
20 and sixteen transmitted time slots being a transmission frame.

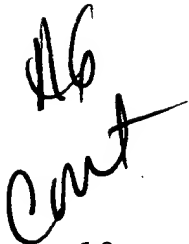
23. The transmission system according to claim 22, wherein between 80 and 100 carrier frequencies are provided.

24. The transmission system according to claim 22, wherein a frequency band of between 2.4 and 2.4835 GHz is provided for transmission of
25 said data.

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25. The transmission system according to claim 22, wherein said predetermined time period after which said carrier frequency is changed is set to one of a time duration of a time slot, of a transmission frame, and of an integer multiple of one of a time slot and a transmission frame.

5 26. The transmission system according to claim 22, wherein an active time slot in which said data is transmitted is in each case followed by an inactive time slot, in which no data is transmitted.

 27. The transmission system according to claim 26, wherein a time duration of inactive time slots is half a time duration of active time slots.

10 28. The transmission system according to claim 26, wherein said first transmitter is further for selecting a carrier frequency of an active time slot in each case during a preceding inactive time slot; and wherein said second transmitter is further for selecting a carrier frequency of an active time slot in each case during a preceding inactive time slot.